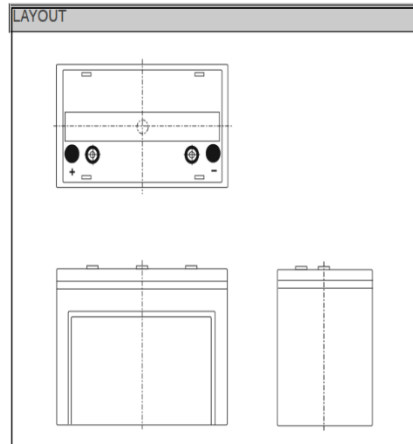
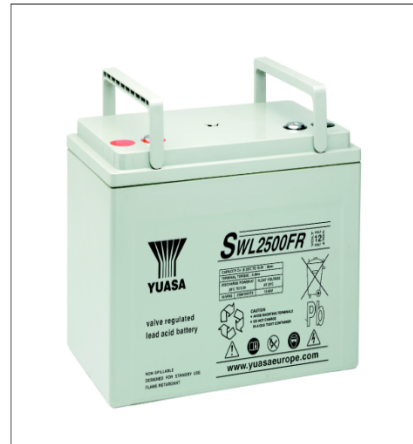


SWL-Series - Valve Regulated Lead Acid Battery

SWL2500 (FR)

SPECIFICATIONS		
Nominal voltage	12	V
10-min rate Constant Power to 9.6V at 20°C	2500	Watts
10-min rate Constant Power to 1.6V/cell at 20°C	417	Watts
10-hr rate Capacity to 10.8V at 20°C	90	Ah
DIMENSIONS		
Length	305 (±3)	mm
Width	173 (±3)	mm
Height	220 (±3)	mm
(height over terminals)	223 (±3)	mm
Mass (typical)	32.0	kg
TERMINAL TYPE		
Female threaded terminal	M6	mm
Torque	4.8	Nm
OPERATING TEMPERATURE RANGE		
Storage (in fully charged condition)	-15°C to +40°C	
Charge	-15°C to +50°C	
Discharge	-15°C to +50°C	
STORAGE		
Capacity loss per month at 20°C (approx)	3	%
CASE MATERIAL		
Standard Option	ABS (UL94:HB)	
Flame retardant option (FR)	ABS (UL94:V0)	
CHARGE VOLTAGE		
Float charge voltage at 20°C	13.65 (±1%)	V
	2.275 (±1%)	V/cell
Float Charge voltage temperature correction factor (for variations from the standard 20°C)	-3	mV/cell/°C
Cyclic (or Boost) charge at 20°C	14.5 (±3%)	V
	2.42 (±3%)	V/cell
Cyclic Charge voltage temperature correction factor (for variations from the standard 20°C)	-4	mV/cell/°C
CHARGE CURRENT		
Float charge current limit	No limit	A
Cyclic (or Boost) charge current limit	22.50	A
MAXIMUM DISCHARGE CURRENT		
1 second	598	A
1 minute	276	A
SHORT-CIRCUIT CURRENT & INTERNAL RESISTANCE (according to EN IEC 60896-21)		
Internal resistance	6.5	mΩ
Short-Circuit current	2258	A
IMPEDANCE		
Measured at 1 kHz	5	mΩ
PERFORMANCE & CHARACTERISTICS		
Refer to the technical manual	SWL	
DESIGN LIFE		
EUROBAT Classification: High Performance	10 to 12	years
Yuasa design life (at 20°C)	up to 10	years
SAFETY		
Installation		
Can be installed and operated in any orientation except permanently inverted		
Handles		
Batteries must not be suspended by their handles (where fitted)		
Vent valves		
Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.		
Gas Release		
VRLA Batteries release hydrogen gas which can form explosive mixtures in air. Do not place inside a sealed container		
Recycling		
YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations		



3RD PARTY CERTIFICATIONS

ISO 9001 - Quality Management Systems
 ISO 14001 - Environmental Management Systems
 EN 18001 - OHSAS Management Systems
 TL4423-6 by DeTeImmobilien
 UNDERWRITERS LABORATORIES Inc.



STANDARDS

IEC61056
 IEC60896-21/22



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE
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YUASA BATTERY
 SALES UK LTD.
 Unit 13, Hunts Rise
 South Marston
 Industrial Park
 Swindon
 SN3 4TG

Yuasa Technical Data Sheet



Yuasa SWL3300 Industrial VRLA Battery

Specifications

Nominal voltage (V)	12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block)	3300
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	550
20-hr rate capacity to 1.75v per cell at 20°C (Ah)	110.2
10-hr rate Capacity to 1.75v per cell at 20°C (Ah)	102
20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)	110.2

Dimensions

Length (mm)	350 (±3)
Width (mm)	168 (±2)
Height (mm)	225 (±1)
Mass (kg)	37.7

Terminal Type

Threaded terminal - (M=Male or F=Female)	M8 (F)
Torque (Nm)	6

Operating Temperature Range

Storage (in fully charged condition)	-20°C to +50°C
Charge	-15°C to +50°C
Discharge	-20°C to +60°C

Storage

Capacity loss per month at 20°C (% approx.)	3
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Case Material

Standard	ABS (UL94:HB)
FR version available	UL94:V0

Charge Voltage

Float charge voltage at 20°C (V)/Block	13.65 (±1%)
Float charge voltage at 20°C (V)/Cell	2.275 (±1%)
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V)/Block	14.5 (±3%)
Cyclic (or Boost) charge Voltage at 20°C (V)/Cell	2.42 (±3%)
Cyclic Chg voltage tmp correction factor from std 20°C (mV)	-4

Charge Current

Float charge current limit (A)	No limit
Cyclic (or Boost) charge current limit (A)	25.625

Maximum Discharge Current

1 second (A)	1100
1 minute (A)	550

Short-Circuit Current & Internal Resistance

Internal resistance - according to EN IEC 60896-21 (mΩ)	5.64
Short-Circuit current - according to EN IEC 60896-21 (A)	2547

Impedance

Measured at 1 kHz (mΩ)	3.5
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Design Life & Approvals

EUROBAT Classification: Long life	10 to 12 years
Yuasa design life at 20°C (yrs)	up to 10 years



Layout



3rd Party Certifications

ISO9001 - Quality Management Systems
ISO14001 - Environmental Management Systems
ISO45001 OHSAS Management Systems
UNDERWRITERS LABORATORIES Inc.



Safety

Installation

Can be installed and operated in any orientation except permanently inverted.

Handles

Batteries must not be suspended by their handles (where fitted).

Vent valves

Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.

Gas release

VRLA batteries release hydrogen gas which can form explosive mixtures in the air. Do not place inside a sealed container.

Recycling

YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations.

Data Sheet generated on 21/06/2023 - E&OE

